

Hunterdon County



HUNTERDON

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DeRewal Chemical Company

Route 29 (Delaware River Road)

Kingwood Township

Hunterdon County

BLOCK: 50 **LOT:** 4

CATEGORY: Superfund
Federal Lead

TYPE OF FACILITY: Chemical Manufacturing
OPERATION STATUS: Inactive

PROPERTY SIZE: 1.4 Acres

SURROUNDING LAND USE: Residential/Industrial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds
Metals

STATUS

Delineated

Soil

Volatile Organic Compounds
Polycyclic Aromatic Hydrocarbons
Metals

Removed

FUNDING SOURCES

Superfund
1986 Bond Fund

AMOUNT AUTHORIZED

\$4,827,000
\$1,720,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

DeRewal Chemical Company operated a chemical manufacturing facility at this site between 1970 and 1974. The site is located in a rural area where ground water is used for drinking water supplies. Operations at the facility involved mixing and packaging a textile preservative and manufacturing an agricultural fungicide. Chemicals used at the facility included metals, acid solutions, fertilizer nutrients and other compounds. Numerous chemical spills were reported in 1973, including one incident in which a tank truck drained 3,000 to 5,000 gallons of a highly acidic chromium solution onto the soil. The company excavated the contaminated soil in 1974, but left it on site in two partially covered piles which were allowed to erode. The owner of the company subsequently ceased operations and filed for bankruptcy.

USEPA added the DeRewal Chemical Company to the National Priorities List of Superfund sites in 1984. A Remedial Investigation and Feasibility Study (RI/FS) conducted for the site revealed that the shallow aquifer was contaminated with volatile organic compounds and metals at levels above ground water quality criteria. Contamination was also detected in the deeper aquifer at levels below ground water quality criteria. The RI/FS also revealed that the soil at the site was contaminated with metals, including chromium, and organic compounds.

In 1989, after completing the RI/FS, USEPA issued a Record of Decision (ROD) with NJDEP concurrence. The ROD required excavation of the contaminated soil, followed by on-site thermal treatment of the organic-contaminated soil and solidification/stabilization of the inorganic-contaminated soil, and extraction of the contaminated shallow ground water with off-site disposal at an industrial waste water treatment facility. However, after reviewing additional data obtained during the Remedial Design process, USEPA modified the soil remedy in the ROD to excavation and off-site disposal. USEPA completed removal of approximately 60,000 tons of contaminated soil from the site in 1998. USEPA is evaluating recent ground water sampling results to determine whether remediation of the shallow aquifer is still warranted now that the soil, which was a source of contamination to the ground water, has been remediated.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M
Sitewide				

Planned

Underway

Completed

Not Required

Flemington Water Department Well 7

65 Route 12

Flemington Borough

Hunterdon County

BLOCK: 35 **LOT:** 37

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Unknown Source
OPERATION STATUS: Not Applicable

PROPERTY SIZE: Not Applicable

SURROUNDING LAND USE: Residential/Commercial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Carbon Tetrachloride

STATUS

Confirmed

Potable Water

Carbon Tetrachloride

Treating

FUNDING SOURCES









1986 Bond Fund

AMOUNT AUTHORIZED

\$240,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Flemington Water Department Well 7 is a primary source of potable water for 4,000 Borough residents. The supply well was closed down in 1994 when routine sampling revealed that the water was contaminated with the volatile organic compound carbon tetrachloride at levels exceeding New Jersey Drinking Water Standards. The source of the contamination is unknown. In 1997, NJDEP completed a Remedial Action Selection (RAS) that concluded installation of an air stripper on the well was the most cost-effective method to address the contamination. The Flemington Water Department installed the air stripper in 1998 using funds provided by NJDEP. Operation and maintenance of the air stripper is being conducted by the Flemington Water Department. NJDEP plans to conduct an investigation to identify possible sources of the ground water contamination in 2000.

PROJECT NAME	R/RAS	DESIGN	CONSTR	O&M	
Receptor Control (Air Stripper)					 Planned
					 Underway
					 Completed
					 Not Required

High Bridge Water Department Well Field Contamination

Buffalo Hollow Road Lebanon Township Hunterdon County

BLOCK: 10 **LOT:** 38

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Unknown Source
OPERATION STATUS: Not Applicable

PROPERTY SIZE: Not Applicable

SURROUNDING LAND USE: Residential

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Trichloroethylene

STATUS

Confirmed

Potable Water

Trichloroethylene

Treating

FUNDING SOURCES









1986 Bond Fund

AMOUNT AUTHORIZED

\$200,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

The High Bridge Water Department's Bunnvale Well Field consists of four bedrock aquifer wells. Sampling of the individual wells conducted in 1995 and 1996 revealed that three of the four wells were contaminated with trichloroethylene (TCE) at levels in excess of state drinking water standards. One of the four wells was taken out of service in 1995 due to the high TCE levels, and the contamination in the remaining wells was reduced to acceptable levels through blending. The source of the contamination is unknown. In 1997, NJDEP completed a Remedial Action Selection (RAS) that concluded the most cost-effective long-term solution was to install an air stripper to treat the contamination in all four wells. Lebanon Township completed construction of the air stripper in 1998 using funds provided by NJDEP. Operation and maintenance of the air stripper is ongoing by the Township.

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
Receptor Control (Air Stripper)					 Planned
					 Underway
					 Completed
					 Not Required

Holland Sales and Service

1050 Milford Glen Road

Holland Township

Hunterdon County

BLOCK: 6 **LOT:** 40

CATEGORY: Non-Superfund
State Lead

TYPE OF FACILITY: Gasoline Service Station
OPERATION STATUS: Active

PROPERTY SIZE: 0.9 Acre

SURROUNDING LAND USE: Residential

MEDIA AFFECTED

CONTAMINANTS

STATUS

Ground Water

Volatile Organic Compounds

Delineating

Potable Water

Volatile Organic Compounds

Treating

Soil

Petroleum Hydrocarbons

Delineating

FUNDING SOURCES

AMOUNT AUTHORIZED

1986 Bond Fund













\$115,000

Corporate Business Tax

\$124,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Leaking underground storage tanks contaminated the soil and ground water at this service station during the late 1980s. The owner/operator of the service station removed the leaking tanks and some of the contaminated soil in 1988 but did not address the ground water. Sampling conducted by NJDEP in 1996 revealed that several nearby private potable wells were contaminated with gasoline-related volatile organic compounds. NJDEP subsequently installed Point-of-Entry Treatment (POET) water filtration systems on the contaminated wells as an interim remedy to provide potable water for those residents, and is monitoring and maintaining the POETs to ensure that the units continue to operate effectively. A preliminary investigation to determine the extent of the soil and ground water contamination was begun in 1997.

PROJECT NAME	R/RAS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
Sitewide					 Underway
					 Completed
					 Not Required

Mobil Service Station Flemington Borough

144 Main Street

Flemington Borough

Hunterdon County

BLOCK: 36 **LOT:** 22

CATEGORY: Non-Superfund
State Lead

TYPE OF FACILITY: Gasoline Service Station
OPERATION STATUS: Active

PROPERTY SIZE: 0.3 Acre

SURROUNDING LAND USE: Commercial/Residential

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds

STATUS

Confirmed

Soil

Petroleum Hydrocarbons

Confirmed

FUNDING SOURCES

Corporate Business Tax

AMOUNT AUTHORIZED

\$282,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This site is also known as Eric's Main Street Mobil service station. Investigation of the property began in 1992, after the telephone company discovered gasoline-contaminated ground water had seeped into an adjacent subsurface telephone utility vault. Petroleum vapors were subsequently detected in another nearby telephone utility vault and the basement of a telephone company building, which is connected in line to the two vaults. The telephone company installed grates on the vaults to ventilate the gasoline vapors. NJDEP directed the owner of the service station to investigate the integrity of the underground gasoline storage tanks, determine the extent of the gasoline contamination in the soil and ground water and perform any necessary remedial actions. The service station owner conducted integrity tests on the underground storage tanks in 1993 that indicated the tanks were not leaking but did not take any further measures.

In 1998, NJDEP's Bureau of Underground Storage Tanks conducted a preliminary investigation at the service station that included collecting ground water samples from existing on-site monitor wells, collecting soil samples and monitoring the air in the nearest telephone vault. The preliminary investigation showed that the ground water and soil were contaminated with several gasoline-related volatile organic compounds, including benzene, xylene and methyl-tertiary butyl ether (MTBE). The air monitoring showed that explosive gasoline vapors accumulated rapidly in the telephone vault when it was not vented, indicating that vapors were continuing to migrate through the subsurface soil into the vault. In 1999, NJDEP's Division of Publicly Funded Site Remediation initiated a Remedial Investigation/Remedial Action Selection (RI/RAS) to delineate the extent of the contamination at the site and evaluate cleanup options. The soil and ground water sampling phase of the RI are scheduled to begin in early 2000.

PROJECT NAME

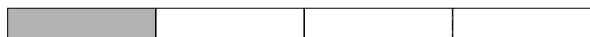
RI/RAS

DESIGN

CONSTR

O&M

Sitewide



- ☐ Planned
- ☒ Underway
- ☐ Completed
- ☐ Not Required

Red Horse Shoppes Incorporated

Route 31 & Payne Road

Clinton Township

Hunterdon County

BLOCK: 89 **LOT:** 8.01

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Gasoline Service Station
OPERATION STATUS: Active

PROPERTY SIZE: 1 Acre

SURROUNDING LAND USE: Residential/Commercial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds

STATUS

Confirmed

Potable Water

Volatile Organic Compounds

Confirmed

Soil

Volatile Organic Compounds

Confirmed

FUNDING SOURCES

Corporate Business Tax

AMOUNT AUTHORIZED

\$36,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This site is also known as the A&L Oil Mobil service station. The property is owned by Red Horse Shoppes, Inc. In 1990, NJDEP was notified that the soil at the service station and an on-site and several off-site private potable wells were contaminated with petroleum products. NJDEP investigated and determined that the source of the contamination was most likely a leaking underground gasoline storage tank at the service station. In 1990 and 1991, NJDEP issued two directives that required the gasoline retailer to perform a remedial investigation at the property and take immediate corrective action. A&L Oil removed four underground fuel storage tanks from the site in 1991 but left the soil excavated during the tank removal on site and did not delineate the ground water contamination. In addition, A&L Oil did not comply with a 1993 directive from NJDEP that required the gasoline retailer to address five nearby private potable wells that were determined to be contaminated with gasoline-related volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. NJDEP's Division of Publicly Funded Site Remediation began a Remedial Investigation and Remedial Action Selection (RI/RAS) in October 1999 to delineate the extent of the contamination in the soil and ground water and identify cleanup alternatives. The RI/RAS will include sampling of private potable wells at 20 nearby properties, which is scheduled for early 2000.

PROJECT NAME RI/RAS DESIGN CONSTR O&M

Sitewide



- ☐ Planned
- ☒ Underway
- ☐ Completed
- ☐ Not Required

Schaffernoth's Nursery

Old York Road & Route 202

East Amwell Township

Hunterdon County

BLOCK: 1402 **LOT:** 45

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Flower and Garden Center
OPERATION STATUS: Active

PROPERTY SIZE: 10 Acres

SURROUNDING LAND USE: Agricultural/Residential

MEDIA AFFECTED

CONTAMINANTS

STATUS

Ground Water

Volatile Organic Compounds

Delineating

Potable Water

Volatile Organic Compounds

Investigating

Soil

Volatile Organic Compounds

Delineating

FUNDING SOURCES

1981 Bond Fund

AMOUNT AUTHORIZED

\$100,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This property is used for agricultural and retail operations. A retail store, two garages and several greenhouses occupy one third of the property and the rest is cultivated. Sampling of an on-site potable well in 1997 revealed that it was contaminated with high levels of methyl tertiary butyl ether (MTBE), a volatile organic compound used as a gasoline additive. A subsequent investigation revealed that the source of the contamination was a leaking underground gasoline storage tank located at the property. The property owner removed the leaking underground gasoline storage tank and some contaminated soil under the supervision of NJDEP's Bureau of Underground Storage Tanks, but did not conduct any further remedial work. In 1998, NJDEP's Division of Publicly Funded Site Remediation began a Remedial Investigation/Remedial Action Selection (RI/RAS) to determine the extent of the contamination in the soil and ground water and identify cleanup alternatives. Sampling of private potable wells conducted that year as part of the RI did not reveal any contamination that could be attributed to this site. NJDEP expects to complete the RI/RAS in 2001.

PROJECT NAME

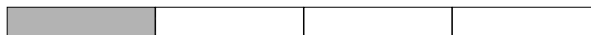
RI/RAS

DESIGN

CONSTR

O&M

Sitewide



Planned



Underway



Completed



Not Required

US Route 22 and Mountain Road Well Contamination

US Route 22 and Mountain Road

Readington Township

Hunterdon County

BLOCK: Various **LOT:** Various

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Unknown Source
OPERATION STATUS: Not Applicable

PROPERTY SIZE: Not Applicable

SURROUNDING LAND USE: Residential/Industrial

MEDIA AFFECTED

CONTAMINANTS

STATUS

Ground Water

Volatile Organic Compounds

Confirmed

Potable Water

Volatile Organic Compounds

Treating

Soils

Volatile Organic Compounds

Confirmed

FUNDING SOURCES













AMOUNT AUTHORIZED

1986 Bond Fund

\$22,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

In 1991, the Hunterdon County Health Department determined that 11 private potable wells in this area were contaminated with various volatile organic compounds. NJDEP installed Point-of-Entry Treatment (POET) water filtration systems in the affected homes to provide potable water for these residents. A water supply alternative analysis conducted by NJDEP concluded that the most cost-effective long-term solution was the continued use of POETs at the affected residences. NJDEP will conduct a preliminary assessment and site investigation to determine the source of the contamination.

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
Water Line					 Underway
					 Completed
					 Not Required

Willocks Court Ground Water Contamination

Willocks Court

Readington Township

Hunterdon County

BLOCK: Various **LOT:** Various

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Unknown Source
OPERATION STATUS: Not Applicable

PROPERTY SIZE: Not Applicable

SURROUNDING LAND USE: Residential

MEDIA AFFECTED

CONTAMINANTS

STATUS

Ground Water

Trichloroethylene
Tetrachloroethylene
1,1 Dichloroethylene

Confirmed

Potable Water

Trichloroethylene
Tetrachloroethylene
1,1 Dichloroethylene

Treating

FUNDING SOURCES









AMOUNT AUTHORIZED

Spill Fund

\$110,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

In 1988, the local health department determined that 20 private potable wells in this area were contaminated with several chlorinated volatile organic compounds. In 1990, NJDEP installed Point-of-Entry Treatment (POET) water filtration units in the affected homes, delineated a Ground Water Impact Area and conducted a water supply alternative analysis. Based on the results of this analysis, NJDEP concluded that the most cost-effective long-term solution was the continued use of POETs in the affected homes. The Township monitors and maintains the POETs using Spill Fund monies provided by NJDEP. NJDEP is conducting a preliminary assessment and site investigation to determine the source of the ground water contamination.

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
					 Underway
					 Completed
					 Not Required

